COMPLETE LISTING OF PENDING CLAIMS

- 1. (Currently Amended) A seal ring (1) of a mechanical face seal device for jet engines adapted for rotation in common with an engine shaft, eharacterized in that itwherein said seal ring is formed of a composite material comprising a fibre-reinforced ceramic material.
- 2. (Currently Amended) The seal ring according to claim 1, eharacterized in that wherein the reinforcing fibres are selected from a group of reinforcing fibres comprising carbon and SiC fibres.
- 3. (Currently Amended) The seal ring according to claim 1-or 2, characterized in that wherein the ceramic material comprises a SiC material.
- 4. (Currently Amended) The seal ring according to any one of the preceding claims claim 1, characterized in that wherein the proportion of reinforcing fibre in the composite material amounts to between 45 and 65 volume %, preferably to between 50 and 60 volume %.
- 5. (Currently Amended) The seal ring according to any one of the preceding claims claim 1, characterized in that wherein the composite material comprises unaligned reinforcing fibres having a length of more than 5 mm, preferably of between 15 and 25 mm.
- 6. (Currently Amended) The seal ring according to any one of claims 1 to 4 claim 1, characterized in that wherein the composite material comprises aligned reinforcing fibres.

- 7. (Currently Amended) The seal ring according to any one of the preceding claims claim 1, characterized in that wherein the diameter of the reinforcing fibres amounts to less than 15 μm, preferably to between 2 and 12 μm.
- 8. (Currently Amended) The seal ring according to claim 6, characterized in that wherein a fabric of reinforcing fibres is provided.
- 9. (Currently Amended) The seal ring according to claim 6, characterized by wherein there is provided a fibre reinforcement which is produced by a fibre filament winding process.
- 10. (Currently Amended) The seal ring according to any of the claims 6 to 9claim 6, eharacterized in that wherein a surface layer consisting of a fibre-reinforced SiC composite material is provided on at least one of the opposite end faces (17, 18) of the seal ring (1), whereby the reinforcing fibres in the surface layer are unaligned.
- 11. (Currently Amended) The seal ring according to claim 10, characterized in that wherein the thickness of the surface layer amounts to between 0.1 and 1.0 mm, preferably between 0.25 and 0.5 mm.

- 12. (Originally Presented) The seal ring according to any one of the preceding elaimsclaim 1, characterized in that wherein a seal face (13) having pumping structures (20) formed therein is formed in at least one of the end faces (17, 18) of the seal ring (1) or the end face (17) provided with the surface layer.
- 13. (Currently Amended) A mechanical face seal device for jet engines comprising at least one pair of cooperating seal rings (1, 2), of which one is designed for non-rotational mounting on a stationary component and the other for rotation in common with an engine shaft, charetreized by and further including a pairing of materials for the seal rings (1, 2) which comprises a friction minimizing material. for the non-rotational seal ring (2) and a composite material consisting of a fibre-reinforced ceramic material for the rotary seal ring (1).
- 14. (Currently Amended) The mechanical face seal device for jet engines according to claim 13, eharacterized in that wherein the composite material is a SiC composite material reinforced with carbon or SiC fibres.
- 15 (Currently Amended) The mechanical face seal device for jet engines according to claim—12 or 13, characterized in that wherein the friction-minimizing material is a carbon material.
- 16 (Currently Amended) The mechanical face seal device for jet engines according to any one of the claims 12 to 15 claim 13, characterized in that wherein, for use in a low-pressure region of the jet engine, the composite material comprises unaligned reinforcing fibres having a

length of more than 5 mm, preferably of between 15 and 25 mm.

17.(Currently Amended) The mechanical face seal device for jet engines according to any one of the claims 12 to 15claim 13, characterized in that wherein, for use in a high pressure region of the jet engine, the composite material comprises aligned reinforcing fibres.

18.(Currently Amended) The mechanical face seal device for jet engines according to claim 17, eharacterized in that wherein a surface layer consisting of a fibre-reinforced SiC composite material is provided on at least that one of the opposite end faces (17, 18) of the rotary seal ring (1) on which a seal face (13) is formed, whereby the reinforcing fibres of the surface layer are unaligned.

- 19. (Currently Amended) The mechanical face seal device for jet engines according to any one of the claims 12 to 18claim 13, characterized in that wherein pumping structures (20) are formed in a or saidat least one of the seal faces (13) of the rotary seal rings (1).
- 20. (New) The seal ring according to claim 7, wherein a surface layer consisting of a fibre-reinforced SiC composite material is provided on at least one of the opposite end faces of the seal ring, whereby the reinforcing fibres in the surface layer are unaligned.

21. (New) The seal ring according claim 1, wherein a seal face having pumping structures formed therein is formed in at least one of the end faces of the seal ring provided with a surface layer thereon.